

TABLE 1. PARAFFINIC PCMS

Paraffin n-Alkanes	Number of C Atoms	Melting Point		Latent Heat of Fusion (kJ/kg)	Density at 20°C (kg/m')
		°K	°C		
Tetradecane	14	278.95	5.8	227	759 (l)
Pentadecane	15	283.05	9.9	207	765 (l)
Hexadecane	16	291.25	18.1	236	770 (l)
Heptadecane	17	295.05	21.9	214	775 (s)
Octadecane	18	301.25	28.1	244	779 (s)
Nonadecane	19	305.15	32	222	782 (s)
Eicosane	20	309.75	36.6	248	785 (s)
Heneicosane	21	313.35	40.2	213	788 (s)
Docosane	22	317.15	44	252	791 (s)
Tricosane	23	320.65	47.5	234	793 (s)
Tetracosane	24	323.75	50.6	255	796 (s)
Pentacosane	25	326.65	53.5	238	798 (s)
Hexacosane	26	329.45	56.3	250	800 (s)
Heptacosane	27	331.95	58.8	235	802 (s)
Octacosane	28	334.35	61.2	254	803 (s)
Nonacosane	29	336.35	63.2	239	805 (s)
Triacontane	30	338.55	65.4	252	806 (s)
Hentriacontane	31	341.05	67.9	242	808 (s)
Dotriacontane	32	342.85	69.7	266	809 (s)
Tritriacontane	33	344.55	71.4	256	810 (s)
Tetratriacontane	34	346.25	73.1	268	811 (s)
Pentatriacontane	35	347.85	74.7	257	6-12 (s)
Hexatriacontane	36	349.35	76.2	269	814 (s)
Heptatriacontane	37	350.85	77.7	259	815 (s)
Octatriacontane	38	352.15	79	271	815 (s)

TABLE 2. NON-PARAFFINIC PCMs

Name	Melting Point		Latent Heat of Fusion (kj/kg)	Density (kg/m3)	Description
	°K	°C			
Myristic acid, ethyl ester	284	11	184		Non-paraffin organic
Acetic acid	289.9	16.7	187	1050	Non-paraffin organic
Glycerol	291.1	17.9	198.7	1260	Non-paraffin organic
Caprylic-Lauric	292.25	19.1			Non-paraffin organic
Caprylic-Myristic	294.55	21.4			Non-paraffin organic
Caprylic-Palmitic	295.25	22.1			Non-paraffin organic
Lactic Acid	299	26	184	1249	Non-paraffin organic
Caprylic-Stearic	299.95	26.8			Non-paraffin organic
Caprylic acid	303.25	30.1	168.7		Non-paraffin organic
Lauric-Myristic	305.75	32.6			Non-paraffin organic
Lauric-Palmitic	305.95	32.8			Non-paraffin organic
Lauric-Stearic	310.45	37.3			Non-paraffin organic
Myristic-Palmitic	312.95	39.8			Non-paraffin organic
Lauric Acid	314.45	41.3			Non-paraffin organic
Myristic-Stearic	317.15	44			Non-paraffin organic
Elaidic Acid	320	47	218	851	Non-paraffin organic
Camphene	323	50	238	812	Non-paraffin organic
OxazolineWax-ES-254	323	50			Non-paraffin organic
Palmitic-Stearic	323.55	50.4			Non-paraffin organic
Palmitic acid	328	55	163	850	Non-paraffin organic
Hphosphoric acid	328	55	213		Non-paraffin organic
Tristearin	329	56	190.8	862	Non-paraffin organic
Myristic acid	331	58	199	858	Non-paraffin organic
Beeswax	335	61.8	177	950	Non-paraffin organic
p-Chloraniline	342	69	156	1213	Non-paraffin organic
Stearic acid	342.6	69.4	199	847	Non-paraffin organic

Name	Melting Point		Latent Heat of Fusion (kj/kg)	Density (kg/m3)	Description
	°K	°C			
Oxazoline Wax-TS-970	347	74			Non-paraffin organic
3-Bromo-d-camphor	350	77	174	1449	Non-paraffin organic
Polyethylene Glycol 600	293-298	20-25	146	1100	Non-paraffin organic
Trimyristin	306-330	33-57	201-213		Non-paraffin organic
Joboba Wax	284.65	11.5			Insoluble fatty of natural oils and waxes
Caster Oil	286.15	13			Insoluble fatty of natural oils and waxes
Almond	286.69	13.5			Insoluble fatty of natural oils and waxes
Walnut	287.45	14.3			Insoluble fatty of natural oils and waxes
White Mustard Seed	288.65	15.5			Insoluble fatty of natural oils and waxes
Black Mustard	289.65	16.5			Insoluble fatty of natural oils and waxes
Esparto	290.65	17.5			Insoluble fatty of natural oils and waxes
Rape Seed (Canola)	292.15	19			Insoluble fatty of natural oils and waxes
Candlenut	293.65	20.5			Insoluble fatty of natural oils and waxes
Poppy Seed	293.65	20.5			Insoluble fatty of natural oils and waxes
Sunflower	296.15	23			Insoluble fatty of natural oils and waxes
Beechnut	296.65	23.5			Insoluble fatty of natural oils and waxes
Coconut Oil	298.15	25			Insoluble fatty of natural oils and waxes
Soy Bean Oil	300.15	27			Insoluble fatty of natural oils and waxes

Name	Melting Point		Latent Heat of Fusion (kj/kg)	Density (kg/m3)	Description
	°K	°C			
Cotton Seed Stearin	301.65	28.5			Insoluble fatty of natural oils and waxes
Cotton Seed Oil	307.65	34.5			Insoluble fatty of natural oils and waxes
Pumpkin Seed	331.15	58			Insoluble fatty of natural oils and waxes
$\text{NH}_4\text{Cl} \cdot \text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$	284.25	11.1	165		Salt Hydrates
$\text{NaCl} \cdot \text{NH}_4\text{Cl} \cdot 2\text{Na}_2\text{SO}_4 \cdot 20\text{H}_2\text{O}$	285.95	12.8	173		Salt Hydrates
$\text{NaCl} \cdot \text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$	291.45	18.3	175		Salt Hydrates
Calcium Chloride Hexahydrate	302.6	29.4	170		Salt Hydrates
Sodium Sulfate Decahydrate	305.6	32.4	253	1460	Salt Hydrates
Sodium Carbonate Decahydrate	306	33	251	1440	Salt Hydrates
Calcium Bromide Hexahydrate	306.95	33.8			Salt Hydrates
Sodium Thiosulfate Pentahydrate	322	49	200	86	Salt Hydrates
Witco 85010-1	280.15	7	>150		Crystalline alkyl hydrocarbons
Witco K-51	290.15	17	>150		Crystalline alkyl hydrocarbons
Witco K-61	297.15	24	>150		Crystalline alkyl hydrocarbons
Witco 45A	304.15	31	>150		Crystalline alkyl hydrocarbons
Kenwax 18	297-299	24-26			Crystalline alkyl hydrocarbons
Kenwax 19	301-304	28-31			Crystalline alkyl hydrocarbons
Kenwax 20	309.15	36			Crystalline alkyl hydrocarbons